ELSEVIER

Journal of Organometallic Chemistry 574 (1999) 319

Journal of Organometallic Chemistry

Author Index of Volume 574

Amelunxen, K., 246
Aoyagi, K., 107
Asahara, M., 193
Author, A., 1

Basova, A.A., 279
Baudry, D., 213
Becker, J.Y., 11
Broussier, R., 267
Brown, D.A., 219
Butin, K.P., 279

Chen, G., 276
Chen, J.-x., 58
Chi, Y., 294
Chou, Y.-C., 294
Chung, C., 294

Demtschuk, J., 228
Dormond, A., 213

Egorov, M.P., 279
Erabi, T., 86

Fernández, E.J., 207
Fujitsuka, M., 32
Fujiwara, Y., 116
Fukuzumi, S., 32

Gal'minas, A.M., 279
Gautheron, B., 267
Glass, W.K., 219

Harada, Y., 24
Heigl, O.M., 94
Herker, M.A., 94
Hidai, M., 24
Hiller, W., 94
Hiraki, K., 121
Hosokawa, T., 99
Hosomi, A., 102
Hursthouse, M.B., 207

Ihara, E., 40
Ikeda, I., 19
Ingham, S.L., 302
Inoue, H., 133
Inoue, K., 116
Ishikawa, M., 50
Ishizuka, T., 102
Ito, H., 102
Itoh, K., 133
Itoh, M., 241
Ito, O., 32
Iwata, K., 241

Kai, Y., 40
Kalck, P., 267
Kaminsky, W., 228
Kanehisa, N., 40
Kawachi, A., 193
Kawano, H., 121
Kelly, T.A., 219
Kida, T., 19
Kitamura, T., 116
Kobayashi, M., 241
Köhler, F.H., 94
Koyama, K., 40
Kunai, A., 50
Kurihara, H., 86
Kurosawa, H., 142
Kuwabara, R., 133

Laguna, M., 207
Laly, M., 267
Lee, G.-H., 294
Lee, M.E., 50
Leong, W.K., 276
Lerner, H.-W., 246

Magennis, S.W., 302
Ma, J.-F., 148
Majima, T., 155
Mak, T.C.W., 311
Matoba, K., 3
Matsubayashi, G.-e., 77
Matsuda, I., 133
Matsumoto, S., 32
Matsunaga, T., 121
Mikami, K., 32
Mizobe, Y., 24
Mizumoto, Y., 99
M'Koyan, S., 267
Moiseeva, A.A., 279
Momeni, B.Z., 286
Mori, H., 77
Moss, J.R., 252
Motofusa, S.-i., 3
Motoori, F., 163
Murahashi, S.-I., 99
Murahashi, T., 142

Nagashima, H., 133
Naka, A., 50
Nakamura, H., 107
Nakano, M., 77
Nakatsuji, Y., 19
Natsume, S., 86
Nefedov, O.M., 279
Niikawa, N., 133
Nonaka, A., 121
Nöth, H., 246

Ohe, K., 3
Ohshita, J., 50
Okumura, T., 102
Onitsuka, K., 66
Orita, A., 58
Otera, J., 58
Ozawa, F., 66
Peng, S.-M., 294
Perron, P., 267
Piao, D.-g., 116
Ponikwar, W., 246

Qian, C., 213

Rakhimov, R.D., 279
Rashidi, M., 286

Sakamoto, K., 58
Schauwienold, A.-M., 228
Schell, A., 94
Schumann, H., 228
Schwenk, H., 246
Shibasaki, H., 116
Shinohara, T., 66
Sik Cho, C., 3
Sonoda, M., 102
Sonogashira, K., 66
Suenobu, T., 32
Sun, G.-R., 193

Takahashi, S., 163
Tamao, K., 193
Tamura, H., 77
Taniguchi, Y., 116
Tateiwa, J.-i., 102
Terroba, R., 207
Tonoi, T., 32
Tseng, W.-C., 294
Tsuji, T., 99

Uemura, S., 3

Visseaux, M., 213

Wada, M., 86
Wang, Q.-G., 311
Weimann, R., 228
West, R., 11
Wheatley, N., 267
Wiberg, N., 246

Yamaguchi, T., 86
Yamamoto, Y., 107, 148
Yamanaka, H., 102
Yasuda, H., 40
Yin, X., 252
Yoneda, Y.-i., 19
Yoshida, T., 66

Zhang, S.-W., 163
Zhang, W., 19
Zhang, Z.-R., 11
Zhao, G., 311
Zietzke, K., 228

PII S0022-328X(98)01158-9

ELSEVIER

Journal of Organometallic Chemistry 574 (1999) 321–325

Journal of Organometallic Chemistry

Subject Index of Volume 574

Acetylene
Synthesis, structure and reactivities of novel σ-ruthenocenylplatinum complexes, 66
Activation energy
An efficient partial oxidation of methane in trifluoroacetic acid using vanadium-containing heteropolyacid catalysts, 116
Alkylborohydride
Co-ordinatively unsaturated neodymium hydrides, stability in solution, 213
Alkyne–carbide coupling
Alkyne–carbide coupling on WOs_3 cluster framework; synthesis and X-ray structure of $(C_5Me_5)WOs_3(\mu_4\text{-}C)(\mu\text{-}CHCHR)(CO)_{10}$ and $(C_5Me_5)WOs_3[\mu_3\text{-}CCR(CH_2)](CO)_{10}$, $R = CH_2Ph$, 294
Allylanthanide
Catalytic activity of allyl-, azaallyl- and diaza-pentadienyllanthanide complexes for polymerization of methyl methacrylate, 40
Allylic alcohols
Synthesis of (π-allyl)palladium complexes from cationic palladium-(II) complexes and allylic alcohols, 99
(π-Allyl)palladium complexes
Synthesis of (π-allyl)palladium complexes from cationic palladium-(II) complexes and allylic alcohols, 99
ansa-Metallocenes
Synthesis, crystal structure and catalytic activity of some new chiral *ansa*-metallocenes of yttrium, lanthanum, samarium, lutetium and of zirconium, 228
Antimony
Axial and equatorial isomers in an isonitrile-substituted osmium–antimony cluster, 276
Palladium(II)-catalyzed phenylation of unsaturated compounds using phenylantimony chlorides under air, 3
Azaallylanthanide
Catalytic activity of allyl-, azaallyl- and diaza-pentadienyllanthanide complexes for polymerization of methyl methacrylate, 40

Bimetallic compounds
1,1-Bis(1″,2″,3″,4″,5″-pentamethylferrocen-1′-yl)ethene, 94
Bridged cyclopentadienyl compounds
Synthesis, crystal structure and catalytic activity of some new chiral *ansa*-metallocenes of yttrium, lanthanum, samarium, lutetium and of zirconium, 228
Bromide
Synthesis, characterization and reactivity of the ω-haloalkyl complexes $[(\eta^5\text{-}C_5R_5)W(CO)_3\{(CH_2)_nX\}]$ (R = H, $n = 3$–7, X = Br and I; $R = CH_3$, $n = 3$, 4, X = Br and I), 252

Carbon monoxide
Synthesis, structure and reactivities of novel σ-ruthenocenylplatinum complexes, 66
Carbonyl
Synthesis, characterization and reactivity of the ω-haloalkyl complexes $[(\eta^5\text{-}C_5R_5)W(CO)_3\{(CH_2)_nX\}]$ (R = H, $n = 3$–7, X = Br and I; $R = CH_3$, $n = 3$, 4, X = Br and I), 252
Carbonyl compounds
Synthetic utility of *o*-carborane: novel protective group for aldehydes and ketones, 107
Clusters
Axial and equatorial isomers in an isonitrile-substituted osmium–antimony cluster, 276
Cobalt complex
Oxidation properties of $Co(\eta^5\text{-}C_5H_5)(C_8H_4S_8)$ and $Co(L)(C_3S_5)$ ($L = \eta^5\text{-}C_5H_5$ and $\eta^5\text{-}C_5Me_5$) and crystal structure of $Co(\eta^5\text{-}C_5Me_5)(C_3S_5)Br$, 77
CO incorporation
Rhodium-catalyzed transformation of propargyl alcohol derivatives to 2-silylmethyl-2-alkenals, 133
Complexes
Catalytic activity of allyl-, azaallyl- and diaza-pentadienyllanthanide complexes for polymerization of methyl methacrylate, 40
Complexes with chromium
Electrochemistry of complexes of dichlorogermylene and dihalostannylenes with chromium, molybdenum, and tungsten pentacarbonyls, 279
Crystal structure
Achiral and planar chiral ferrocene diols: preparation and complexation with titanium(IV), 19
Oxidation properties of $Co(\eta^5\text{-}C_5H_5)(C_8H_4S_8)$ and $Co(L)(C_3S_5)$ ($L = \eta^5\text{-}C_5H_5$ and $\eta^5\text{-}C_5Me_5$) and crystal structure of $Co(\eta^5\text{-}C_5Me_5)(C_3S_5)Br$, 77
Cyclic polysilanes
The effect of ring-size on the electrochemical oxidation of perethylcyclopolysilanes $[(Et_2Si)_n]$, 11
Cyclic voltammetry
1,1-Bis(1″,2″,3″,4″,5″-pentamethylferrocen-1′-yl)ethene, 94
Cyclopentadienyl
Oxidation properties of $Co(\eta^5\text{-}C_5H_5)(C_8H_4S_8)$ and $Co(L)(C_3S_5)$ ($L = \eta^5\text{-}C_5H_5$ and $\eta^5\text{-}C_5Me_5$) and crystal structure of $Co(\eta^5\text{-}C_5Me_5)(C_3S_5)Br$, 77
Synthesis, characterization and reactivity of the ω-haloalkyl complexes $[(\eta^5\text{-}C_5R_5)W(CO)_3\{(CH_2)_nX\}]$ (R = H, $n = 3$–7, X = Br and I; $R = CH_3$, $n = 3$, 4, X = Br and I), 252
Cyclopentadienyltricarbonylmanganese
Decomposition of cyclopentadienyltricarbonylmanganese in highly vibrational excited states, 155
Cyclotrimerisation
Group 4 and Group 8 unbridged metallocene derivatives with a pendant fluorenyl group. X-ray structure of 1,1′-bis[2-(2-fluorenyl)propyl]ferrocene, 267

Decomposition
Decomposition of cyclopentadienyltricarbonylmanganese in highly vibrational excited states, 155

PII S0022-328X(98)01159-0

Diazoalkane complex
Condensation of triketones with tungsten hydrazido(2-) complexes derived from a dinitrogen complex: formation of mononuclear or dinuclear diazoalkane complexes, 24
Dibridged
Synthesis of dibridged diphosphine metal carbonyl complexes and related phosphine transfer reactions, 219
Dienes
The synthesis, structure and selected reactivity of a series of tricarbonyl ruthenium complexes with 1,3-dienes and heterodienes, 302
Dihalogermylenes
Electrochemistry of complexes of dichlorogermylene and dihalostannylenes with chromium, molybdenum, and tungsten pentacarbonyls, 279
Dihalostannylenes
Electrochemistry of complexes of dichlorogermylene and dihalostannylenes with chromium, molybdenum, and tungsten pentacarbonyls, 279
Dihydroxogallan
Tetrasupersilyl-*tetrahedro*-tetragallan ($^tBu_3Si)_4Ga_4$—ein Tetraedran mit besonders kompaktem Ga_4-Tetraedergerüst, 246
2,6-Dimethoxyphenyl
Stability and reactivity of ferrocenyl(2,4,6-trimethoxyphenyl)carbenium salts, 86
8-(Dimethylamino)-1-naphthyl group
Synthesis, structure, and reactivity of 1,ω-bis(*pseudo*-pentacoordinated) 1,ω-difluoro-oligosilanes bearing 8-(dimethylamino)-1-naphthyl groups, 193
Dinuclear
Synthesis and structure of 1,3-dienolate ($CH_2C(O)CH{=}CH_2$) complex of dipalladium(I) moiety: contribution of π-olefin co-ordination of enolate to transition metal, 142
Synthesis of dibridged diphosphine metal carbonyl complexes and related phosphine transfer reactions, 219
Diol
Achiral and planar chiral ferrocene diols: preparation and complexation with titanium(IV), 19
Diphenylacetylene
Insertion reaction between planar chiral cyclopalladated derivatives of ferrocene and diphenylacetylene, 311
Diphosphine
Synthesis of dibridged diphosphine metal carbonyl complexes and related phosphine transfer reactions, 219
Dithiolate complex
Oxidation properties of Co(η^5-C_5H_5)($C_8H_4S_8$) and Co(L)(C_3S_5) (L = η^5-C_5H_5 and η^5-C_5Me_5) and crystal structure of Co(η^5-C_5Me_5)(C_3S_5)Br, 77
dpmf
Preparation and reactions of the (pentamethylcyclopentadienyl)rhodium(III) complexes bearing 1,1′-bis(diphenylphosphinomethyl)ferrocene (dpmf) or 1,1′-bis(diphenylphosphino)ferrocene (dppf), 148
dppf
Preparation and reactions of the (pentamethylcyclopentadienyl)rhodium(III) complexes bearing 1,1′-bis(diphenylphosphinomethyl)ferrocene (dpmf) or 1,1′-bis(diphenylphosphino)ferrocene (dppf), 148

Electrical conductivity
Oxidation properties of Co(η^5-C_5H_5)($C_8H_4S_8$) and Co(L)(C_3S_5) (L = η^5-C_5H_5 and η^5-C_5Me_5) and crystal structure of Co(η^5-C_5Me_5)(C_3S_5)Br, 77
Electrochemical oxidation
The effect of ring-size on the electrochemical oxidation of perethylcyclopolysilanes [$(Et_2Si)_n$], 11
Electrochemistry
Electrochemistry of complexes of dichlorogermylene and dihalostannylenes with chromium, molybdenum, and tungsten pentacarbonyls, 279
Electronic structure
Electrochemistry of complexes of dichlorogermylene and dihalostannylenes with chromium, molybdenum, and tungsten pentacarbonyls, 279
Enolate
Synthesis and structure of 1,3-dienolate ($CH_2C(O)CH{=}CH_2$) complex of dipalladium(I) moiety: contribution of π-olefin co-ordination of enolate to transition metal, 142

Ferrocenes
Achiral and planar chiral ferrocene diols: preparation and complexation with titanium(IV), 19
1,1-Bis(1″,2″,3″,4″,5″-pentamethylferrocen-1′-yl)ethene, 94
Group 4 and Group 8 unbridged metallocene derivatives with a pendant fluorenyl group. X-ray structure of 1,1′-bis[2-(2-fluorenyl)propyl]ferrocene, 267
Insertion reaction between planar chiral cyclopalladated derivatives of ferrocene and diphenylacetylene, 311
Ferrocenyl(phenyl)carbenium
Stability and reactivity of ferrocenyl(2,4,6-trimethoxyphenyl)carbenium salts, 86
Ferrocenyl(phenyl)methane
Stability and reactivity of ferrocenyl(2,4,6-trimethoxyphenyl)carbenium salts, 86
Ferrocenyl(phenyl) methanol
Stability and reactivity of ferrocenyl(2,4,6-trimethoxyphenyl)carbenium salts, 86
Fluorenyl
Group 4 and Group 8 unbridged metallocene derivatives with a pendant fluorenyl group. X-ray structure of 1,1′-bis[2-(2-fluorenyl)propyl]ferrocene, 267
Fluorotetrasilane
Synthesis, structure, and reactivity of 1,ω-bis(*pseudo*-pentacoordinated) 1,ω-difluoro-oligosilanes bearing 8-(dimethylamino)-1-naphthyl groups, 193
Fluorotrisilane
Synthesis, structure, and reactivity of 1,ω-bis(*pseudo*-pentacoordinated) 1,ω-difluoro-oligosilanes bearing 8-(dimethylamino)-1-naphthyl groups, 193

Gallium
Tetrasupersilyl-*tetrahedro*-tetragallan ($^tBu_3Si)_4Ga_4$—ein Tetraedran mit besonders kompaktem Ga_4-Tetraedergerüst, 246
Gold
Phosphinethiolate tin(IV)-11 group-metal derivatives. X-ray structure of [$Au_2Sn(^tBu)_2(C_6F_5)_2(SC_6H_4PPh_2)_2$], 207
Group IV metallocene
Group 4 and Group 8 unbridged metallocene derivatives with a pendant fluorenyl group. X-ray structure of 1,1′-bis[2-(2-fluorenyl)propyl]ferrocene, 267
Group 14 organometallic compounds
Addition of Group 14 organometallic compounds to C_{60} via photoinduced electron transfer. Direct detection of radical ion pair intermediates, 32

Haloalkyl
Synthesis, characterization and reactivity of the ω-haloalkyl complexes [(η^5-C_5R_5)W(CO)$_3${$(CH_2)_nX$}] (R = H, n = 3–7, X = Br and I; R = CH_3, n = 3, 4, X = Br and I), 252
Heck reaction
Palladium(II)-catalyzed phenylation of unsaturated compounds using phenylantimony chlorides under air, 3
Hetero-bis(carbene)
Unsymmetrically substituted bis(carbene)platinum(II) complexes, 163

Heterodienes
The synthesis, structure and selected reactivity of a series of tricarbonyl ruthenium complexes with 1,3-dienes and heterodienes, 302
Heteronuclear complexes
Phosphinethiolate tin(IV)-11 group-metal derivatives. X-ray structure of $[Au_2Sn(^tBu)_2(C_6F_5)_2(SC_6H_4PPh_2)_2]$, 207
Heteropolyacid
An efficient partial oxidation of methane in trifluoroacetic acid using vanadium-containing heteropolyacid catalysts, 116
Highly vibrational excited state
Decomposition of cyclopentadienyltricarbonylmanganese in highly vibrational excited states, 155
Hydride
Co-ordinatively unsaturated neodymium hydrides, stability in solution, 213
Hydroformylation
Group 4 and Group 8 unbridged metallocene derivatives with a pendant fluorenyl group. X-ray structure of 1,1′-bis[2-(2-fluorenyl)propyl]ferrocene, 267
Hydrosilane
Highly stereoselective metathesis reaction between optically active hydrosilane and copper(I) salt in 1,3-dimethyl-2-imidazolidinone, 102

Insertion
Synthesis, structure and reactivities of novel σ-ruthenocenylplatinum complexes, 66
Insertion reaction
Insertion reaction between planar chiral cyclopalladated derivatives of ferrocene and diphenylacetylene, 311
Iodide
Synthesis, characterization and reactivity of the ω-haloalkyl complexes $[(\eta^5\text{-}C_5R_5)W(CO)_3\{(CH_2)_nX\}]$ (R = H, n = 3–7, X = Br and I; R = CH_3, n = 3, 4, X = Br and I), 252
Iron
Stability and reactivity of ferrocenyl(2,4,6-trimethoxyphenyl)carbenium salts, 86
Synthesis of dibridged diphosphine metal carbonyl complexes and related phosphine transfer reactions, 219
Isocyanide
Synthesis, structure and reactivities of novel σ-ruthenocenylplatinum complexes, 66
Isomers
Axial and equatorial isomers in an isonitrile-substituted osmium–antimony cluster, 276

Ketenes
The reactions of tris(trimethylsilyl)silyllithium with ketenes, 50

Lanthanides
Co-ordinatively unsaturated neodymium hydrides, stability in solution, 213

Mechanisms of reduction and oxidation
Electrochemistry of complexes of dichlorogermylene and dihalostannylenes with chromium, molybdenum, and tungsten pentacarbonyls, 279
Mesomorphic property
Unsymmetrically substituted bis(carbene)platinum(II) complexes, 163
Metallacycle
ω-Monobromoalkyl platina(IV)cyclopentane complexes: synthesis, characterization and kinetic studies of the formation, 286
Methane
An efficient partial oxidation of methane in trifluoroacetic acid using vanadium-containing heteropolyacid catalysts, 116
Methyl methacrylate
Catalytic activity of allyl-, azaallyl- and diaza-pentadienyllanthanide complexes for polymerization of methyl methacrylate, 40
Methyl trifluoroacetate
An efficient partial oxidation of methane in trifluoroacetic acid using vanadium-containing heteropolyacid catalysts, 116
Molybdenum
Electrochemistry of complexes of dichlorogermylene and dihalostannylenes with chromium, molybdenum, and tungsten pentacarbonyls, 279
ω-Monobromoalkyl
ω-Monobromoalkyl platina(IV)cyclopentane complexes: synthesis, characterization and kinetic studies of the formation, 286
Mukaiyama-aldol reaction
Preparation, reactivities, and NMR spectra of pentafluorophenyltin derivatives, 58

Neodymium
Co-ordinatively unsaturated neodymium hydrides, stability in solution, 213
Nitrogen fixation
Condensation of triketones with tungsten hydrazido(2-) complexes derived from a dinitrogen complex: formation of mononuclear or dinuclear diazoalkane complexes, 24
NMR spectra
Preparation, reactivities, and NMR spectra of pentafluorophenyltin derivatives, 58

o-Carborane
Synthetic utility of o-carborane: novel protective group for aldehydes and ketones, 107
Olefins
Silylation reactions of olefins with monosilane and disilane in the presence of a transition metal complex, metal hydride, and radical initiator, 241
Oligomer
Synthesis of dibridged diphosphine metal carbonyl complexes and related phosphine transfer reactions, 219
Optically active
Highly stereoselective metathesis reaction between optically active hydrosilane and copper(I) salt in 1,3-dimethyl-2-imidazolidinone, 102
Organolanthanide compounds
Synthesis, crystal structure and catalytic activity of some new chiral *ansa*-metallocenes of yttrium, lanthanum, samarium, lutetium and of zirconium, 228
Osmium
Axial and equatorial isomers in an isonitrile-substituted osmium–antimony cluster, 276
Oxazoline
Achiral and planar chiral ferrocene diols: preparation and complexation with titanium(IV), 19
Oxogallan
Tetrasupersilyl-*tetrahedro*-tetragallan $(^tBu_3Si)_4Ga_4$—ein Tetraedran mit besonders kompaktem Ga_4-Tetraedergerüst, 246
Oxygen
Palladium(II)-catalyzed phenylation of unsaturated compounds using phenylantimony chlorides under air, 3

Palladium
Palladium(II)-catalyzed phenylation of unsaturated compounds using phenylantimony chlorides under air, 3
Synthesis and structure of 1,3-dienolate ($CH_2C(O)CH{=}CH_2$) complex of dipalladium(I) moiety: contribution of π-olefin co-ordination of enolate to transition metal, 142

Palladium catalyst
Synthesis, structure, and reactivity of 1,ω-bis(*pseudo*-pentacoordinated) 1,ω-difluoro-oligosilanes bearing 8-(dimethylamino)-1-naphthyl groups, 193
Partial oxidation
An efficient partial oxidation of methane in trifluoroacetic acid using vanadium-containing heteropolyacid catalysts, 116
Pd–OH elimination
Synthesis of (π-allyl)palladium complexes from cationic palladium(II) complexes and allylic alcohols, 99
Pentacoordination
Synthesis, structure, and reactivity of 1,ω-bis(*pseudo*-pentacoordinated) 1,ω-difluoro-oligosilanes bearing 8-(dimethylamino)-1-naphthyl groups, 193
Pentafluorophenyltin derivatives
Preparation, reactivities, and NMR spectra of pentafluorophenyltin derivatives, 58
Phosphinethiolate
Phosphinethiolate tin(IV)-11 group-metal derivatives. X-ray structure of [$Au_2Sn(^tBu)_2(C_6F_5)_2(SC_6H_4PPh_2)_2$], 207
Phosphine transfer
Synthesis of dibridged diphosphine metal carbonyl complexes and related phosphine transfer reactions, 219
Photoinduced electron transfer
Addition of Group 14 organometallic compounds to C_{60} via photoinduced electron transfer. Direct detection of radical ion pair intermediates, 32
Photolysis
Synthesis, structure, and reactivity of 1,ω-bis(*pseudo*-pentacoordinated) 1,ω-difluoro-oligosilanes bearing 8-(dimethylamino)-1-naphthyl groups, 193
Planar chirality
Achiral and planar chiral ferrocene diols: preparation and complexation with titanium(IV), 19
Insertion reaction between planar chiral cyclopalladated derivatives of ferrocene and diphenylacetylene, 311
Platinum
ω-Monobromoalkyl platina(IV)cyclopentane complexes: synthesis, characterization and kinetic studies of the formation, 286
Unsymmetrically substituted bis(carbene)platinum(II) complexes, 163
Platinum complex
Synthesis, structure and reactivities of novel σ-ruthenocenylplatinum complexes, 66
Polymerization catalysis
Catalytic activity of allyl-, azaallyl- and diaza-pentadienyllanthanide complexes for polymerization of methyl methacrylate, 40
Polymerizations
Synthesis, crystal structure and catalytic activity of some new chiral *ansa*-metallocenes of yttrium, lanthanum, samarium, lutetium and of zirconium, 228
Protective group
Synthetic utility of *o*-carborane: novel protective group for aldehydes and ketones, 107

Radical ion pair intermediates
Addition of Group 14 organometallic compounds to C_{60} via photoinduced electron transfer. Direct detection of radical ion pair intermediates, 32
Reductive elimination
Reactions of [$RuClH(CO)(PPh_3)_3$] with 2-methyl-2-propen-1-ol. Reversible insertion/β-elimination, and reductive elimination on a 3-hydroxy-2-methylpropyl-C^1,O-ruthenium(II) complex, 121
Reversible insertion
Reactions of [$RuClH(CO)(PPh_3)_3$] with 2-methyl-2-propen-1-ol. Reversible insertion/β-elimination, and reductive elimination on a 3-hydroxy-2-methylpropyl-C^1,O-ruthenium(II) complex, 121
Rhodium
Preparation and reactions of the (pentamethylcyclopentadienyl)rhodium(III) complexes bearing 1,1′-bis(diphenylphosphinomethyl)ferrocene (dpmf) or 1,1′-bis(diphenylphosphino)ferrocene (dppf), 148
Ring-size effect
The effect of ring-size on the electrochemical oxidation of perethylcyclopolysilanes [$(Et_2Si)_n$], 11
[$RuClH(CO)(PPh_3)_3$]
Reactions of [$RuClH(CO)(PPh_3)_3$] with 2-methyl-2-propen-1-ol. Reversible insertion/β-elimination, and reductive elimination on a 3-hydroxy-2-methylpropyl-C^1,O-ruthenium(II) complex, 121
Ruthenium
The synthesis, structure and selected reactivity of a series of tricarbonyl ruthenium complexes with 1,3-dienes and heterodienes, 302
Ruthenocene
Synthesis, structure and reactivities of novel σ-ruthenocenylplatinum complexes, 66

Silicon
Tetrasupersilyl-*tetrahedro*-tetragallan ($^tBu_3Si)_4Ga_4$—ein Tetraedran mit besonders kompaktem Ga_4-Tetraedergerüst, 246
Silver
Phosphinethiolate tin(IV)-11 group-metal derivatives. X-ray structure of [$Au_2Sn(^tBu)_2(C_6F_5)_2(SC_6H_4PPh_2)_2$], 207
Silylation
Silylation reactions of olefins with monosilane and disilane in the presence of a transition metal complex, metal hydride, and radical initiator, 241
Silylformylation
Rhodium-catalyzed transformation of propargyl alcohol derivatives to 2-silylmethyl-2-alkenals, 133
2-Silylmethyl-2-alkenals
Rhodium-catalyzed transformation of propargyl alcohol derivatives to 2-silylmethyl-2-alkenals, 133
Stereoselective metathesis
Highly stereoselective metathesis reaction between optically active hydrosilane and copper(I) salt in 1,3-dimethyl-2-imidazolidinone, 102

tetrahedro-Tetragallan
Tetrasupersilyl-*tetrahedro*-tetragallan ($^tBu_3Si)_4Ga_4$—ein Tetraedran mit besonders kompaktem Ga_4-Tetraedergerüst, 246
Thermolysis
Synthesis, structure, and reactivity of 1,ω-bis(*pseudo*-pentacoordinated) 1,ω-difluoro-oligosilanes bearing 8-(dimethylamino)-1-naphthyl groups, 193
Tin
Phosphinethiolate tin(IV)-11 group-metal derivatives. X-ray structure of [$Au_2Sn(^tBu)_2(C_6F_5)_2(SC_6H_4PPh_2)_2$], 207
Titanium
Achiral and planar chiral ferrocene diols: preparation and complexation with titanium(IV), 19
Transition metal complex
Silylation reactions of olefins with monosilane and disilane in the presence of a transition metal complex, metal hydride, and radical initiator, 241

Tricarbonyl
The synthesis, structure and selected reactivity of a series of tricarbonyl ruthenium complexes with 1,3-dienes and heterodienes, 302
2,4,6-Trimethoxyphenyl
Stability and reactivity of ferrocenyl(2,4,6-trimethoxyphenyl)carbenium salts, 86
Tris(trimethylsilyl)silyl adducts
The reactions of tris(trimethylsilyl)silyllithium with ketenes, 50
Tris(trimethylsilyl)silyllithium
The reactions of tris(trimethylsilyl)silyllithium with ketenes, 50
Tungsten
Synthesis, characterization and reactivity of the ω-haloalkyl complexes $[(\eta^5\text{-}C_5R_5)W(CO)_3\{(CH_2)_nX\}]$ (R = H, n = 3–7, X = Br and I; R = CH_3, n = 3, 4, X = Br and I), 252
Tungsten complex
Condensation of triketones with tungsten hydrazido(2-) complexes derived from a dinitrogen complex: formation of mononuclear or dinuclear diazoalkane complexes, 24
Tungsten pentacarbonyls
Electrochemistry of complexes of dichlorogermylene and dihalostannylenes with chromium, molybdenum, and tungsten pentacarbonyls, 279
Vanadium
An efficient partial oxidation of methane in trifluoroacetic acid using vanadium-containing heteropolyacid catalysts, 116
WOs_3 cluster framework
Alkyne–carbide coupling on WOs_3 cluster framework; synthesis and X-ray structure of $(C_5Me_5)WOs_3(\mu_4\text{-}C)(\mu\text{-}CHCHR)(CO)_{10}$ and $(C_5Me_5)WOs_3[\mu_3\text{-}CCR(CH_2)](CO)_{10}$, R = CH_2Ph, 294
X-ray structure
Condensation of triketones with tungsten hydrazido(2-) complexes derived from a dinitrogen complex: formation of mononuclear or dinuclear diazoalkane complexes, 24
Group 4 and Group 8 unbridged metallocene derivatives with a pendant fluorenyl group. X-ray structure of 1,1′-bis[2-(2-fluorenyl)propyl]ferrocene, 267
X-ray structure analyses
Tetrasupersilyl-*tetrahedro*-tetragallan $(^tBu_3Si)_4Ga_4$—ein Tetraedran mit besonders kompaktem Ga_4-Tetraedergerüst, 246
Zirconocenes
Synthesis, crystal structure and catalytic activity of some new chiral *ansa*-metallocenes of yttrium, lanthanum, samarium, lutetium and of zirconium, 228